

Rabbit ATP6V1A Polyclonal Antibody | anti-ATP6V1A antibody

Anti-ATP6V1A Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126575	Rabbit	Human, Mouse, Rat, Monkey	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

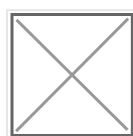
PRODUCT SYNONYMS

ATP6V1A; Polyclonal Antibody; Anti-ATP6V1A Antibody Picoband; anti-ATP6V1A antibody

PRODUCT SPECIFICATIONS

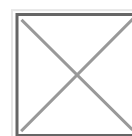
Host	Rabbit
Reactivity	Human, Mouse, Rat, Monkey
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-ATP6V1A antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human ATP6V1A recombinant protein (Position: A37-D617).
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of U87 cells using anti-ATP6V1A antibody (AAA126575). Overlay histogram showing U87 cells stained with AAA126575 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-ATP6V1A Antibody (AAA126575, 1 ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IF (Immunofluorescence)

Figure 2. IF analysis of ATP6V1A using anti-ATP6V1A antibody (AAA126575). ATP6V1A was detected in an immunocytochemical section of HeLa cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL rabbit anti-ATP6V1A Antibody (AAA126575) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of ATP6V1A using anti-ATP6V1A antibody (AAA126575). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human Hela whole cell lysates, Lane 2: human placenta tissue lysates, Lane 3: human K562 whole cell lysates, Lane 4: monkey COS-7 whole cell lysates, Lane 5: rat liver tissue lysates, Lane 6: rat kidney tissue lysates, Lane 7: mouse liver tissue lysates, Lane 8: mouse kidney tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-ATP6V1A antigen affinity purified polyclonal antibody (#AAA126575) at 0.25 ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for ATP6V1A at approximately 70 kDa. The expected band size for ATP6V1A is at 70 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-ATP6V1A antibody	V-type proton ATPase catalytic subunit A is an enzyme that in humans is encoded by the ATP6V1A gene. This gene encodes a component of vacuolar ATPase (V-ATPase), a multisubunit enzyme that mediates acidification of eukaryotic intracellular organelles. V-ATPase dependent organelle acidification is necessary for such intracellular processes as protein sorting, zymogen activation, receptor-mediated endocytosis, and synaptic vesicle proton gradient generation. V-ATPase is composed of a cytosolic V1 domain and a transmembrane V0 domain. The V1 domain consists of three A and three B subunits, two G subunits plus the C, D, E, F, and H subunits. The V1 domain contains the ATP catalytic site. The V0 domain consists of five different subunits: a, c, c', c'', and d. Additional isoforms of many of the V1 and V0 subunit proteins are encoded by multiple genes or alternatively spliced transcript variants. This encoded protein is one of two V1 domain A subunit isoforms and is found in all tissues. Transcript variants derived from alternative polyadenylation exist.
Product Categories/Family for anti-ATP6V1A antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	22096378
NCBI GeneID	523
UniProt Accession #	P38606; Q53YD9; Q96DY6; Q9UHY3; B2RBR8; B7Z1R5; D3DN75
Molecular Weight	617
NCBI Official Full Name	V-type proton ATPase catalytic subunit A
NCBI Official Synonym Full Names	ATPase, H+ transporting, lysosomal 70kDa, V1 subunit A
NCBI Official Symbol	ATP6V1A
NCBI Official Synonym Symbols	HO68; VA68; VPP2; Vma1; ATP6A1; ATP6V1A1
NCBI Protein Information	V-type proton ATPase catalytic subunit A; V-ATPase subunit A; V-ATPase A subunit 1; V-ATPase 69 kDa subunit 1; vacuolar ATPase isoform VA68; vacuolar proton pump subunit alpha; vacuolar proton pump alpha subunit 1; ATPase, H+ transporting, lysosomal, subu
UniProt Protein Name	V-type proton ATPase catalytic subunit A
UniProt Gene Name	ATP6V1A
UniProt Synonym Gene Names	ATP6A1; ATP6V1A1; VPP2; V-ATPase subunit A
UniProt Entry Name	VATA_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/atp6v1a-antibody-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/126575>